WHISPER
MOBILE GENERATOR SETS

Total independence: Mastervolt Whisper diesel generator sets

The Whisper Diesel generator gives you an extremely advanced power plant. It is also a reliable foundation for a system with no weak links. Developed entirely in-house by Mastervolt, this technology is designed to supply power with optimum efficiency. It is compact, economical, quiet and easy to operate. From 6 kVA to 25 kVA, you choose the capacity you need. And the generator is delivered as standard with first-class advice and service.

Main features

- Satisfies strictest environmental standards: Diesel engines emit low amounts of NOx in conformity with standards such as the American EPA.
- Rated to continuous use: 230 V and/or 380 V synchronous alternators of industrial quality (see page 131 for comprehensive information).
- Equipped with a robust sound-dampening enclosure as standard.
- The 230 V alternator has an unique water cooling system that reduces sound levels even further.

Available models

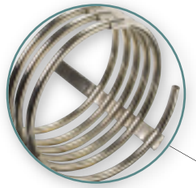
- Whisper Ultra 1500 rpm series: Heavy duty generators in five versions with capacity ranging from 6 to 25 kVA (page 41).
- Whisper 3000 rpm series: The compact and lightweight alternative, available in 6 and 10 kVA (page 40).

Delivered as standard with a display remote control

A digital remote for monitoring and permanent control, including maintenance reminders and an automatic start/stop, based on the battery signal.

Maintenance friendly

Efficiency during maintenance and service is assured thanks to easy access to all vital parts.



Comprehensive water cooling

The 230 V alternator is also water cooled. The interior is maintained at a constant temperature.

Continuous performance

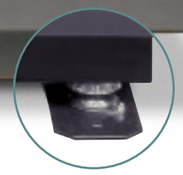
A synchronous alternator ensures high start up ability coupled with a 230 V output.

Efficient low-emission diesel technology

Modern indirect-injection diesel engine ensures exhaust levels meet the latest environmental standards. Engines used - Mitsubishi or Kubota.

Efficient sound proofing

Optimal muting of engine noise by the application of metal shields with effective muffling coating.

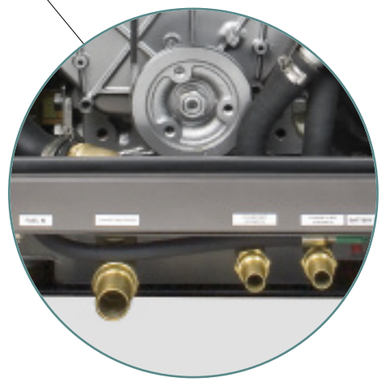


Virtually vibration-free

There are dampers between the engine and sound shield plus four extra shock mounts.

All-in-one service

Mastervolt delivers complete installation kits, including cooling radiators, exhaust systems with hoses and most components to complete the installation (page 44-45).



Fast installation

All connections - cooling water in/out, diesel oil in/out, starter battery and alternator - are provided externally.

"A mobile dental practice requires a sturdy 230 V supply, no matter how limited the available space. That is why we chose the Mastervolt Whisper 10 Ultra for this specially equipped vehicle. Another major reason was the fact that this generator is pretty much the most silent available on the market, to the delight of our customers. I definitely intend to continue buying Mastervolt equipment in the future."

Andrew Scott, Scott Medical Ltd. Mobile Health Clinics, Scarborough, North Yorkshire (United Kingdom)

Mastervolt Guarantee Plan • SystemCheck before commissioning • two-year product warranty • worldwide service

Overview of Whisper generators

Whisper 6*

Whisper 10*

3000 rpm

Whisper 6 Ultra

Whisper 8 Ultra

Whisper 12 Ultra

Whisper 16 Ultra

Whisper 25 Ultra

1500 rpm

Article no.	51102020	51104020	51105020	51106020	51107020	51108020	51101020
GENERAL GENERATOR INFORMATION							
Nominal power**	5 kW	9 kW	5 kW	8 kW	12 kW	16 kW	25 kW
Nominal voltage	230 V - 22 A	230 V - 42 A	230 V single phase	230 V single phase	---------- 230 V single phase or 400V 3-phase** ----------		
Output frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power factor / cos phi	1	1	1	1	1	1	1
Voltage tolerance (V)	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%	± 2%
Frequency tolerance (Hz)	± 1%	± 1%	± 1%	± 1%	± 1%	± 3%	± 3%
Voltage regulation	capacitor	capacitor	capacitor	capacitor	capacitor	capacitor	AVR
Starter battery, AGM type (optional)	12 V, 70 Ah	12 V, 70 Ah	12 V, 70 Ah	12 V, 70 Ah	12 V, 70 Ah	12 V, 160 Ah	12 V, 160 Ah
Battery charge current	alternator 40 A	alternator 40 A	alternator 40 A	alternator 50 A	alternator 50 A	alternator 50 A	alternator 50 A
Dimensions with sound shield (lxwxh in mm)	690x525x580	805x525x580	805x525x580	900x575x640	1060x575x640	1160x680x700	1260x680x800
Dry weight	178 kg	210 kg	240 kg	334 kg	380 kg	454 kg	580 kg
ø dry exhaust pipe	1" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	2" BSP
Location oil refill cap	top & side	top & side	top & side	top & side	top & side	top	top
Max. operating angle	---------- 25° in all directions ----------		---------- 25° in all directions ----------				
Alternator	---------- water-cooled, no brushes, synchronous ----------		---------- water-cooled***, no brushes, synchronous ----------				air-cooled, no brushes, synchronous
Sound level	---------- see page 128 for extended information ----------		---------- see page 128 for extended information ----------				
SPECIFICATIONS DIESEL ENGINE							
Engine model	L2E	L3E	L3E	S3L2	S4L2	S4Q2	S4S
Number of cylinders	2	3	3	3	4	4	4
Cylinder capacity	635 cc	952 cc	952 cc	1318 cc	1758 cc	2505 cc	3331 cc
Bore & stroke	2x 76 x 70 mm	3x 76 x 70 mm	3x 76x70 mm	3x 78x92 mm	4x 78x92 mm	4x 88x103 mm	4x 94x120 mm
Air consumption	0.95 m³/min	1.43 m³/min	0.8 m³/min	1.1 m³/min	1.5 m³/min	2.1 m³/min	2.8 m³/min
Engine cooling	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Fuel consumption (no load - full load)	1-2.5 l/hour	1-4 l/hour	1-3 l/hour	1-3 l/hour	1-4 l/hour	1-5 l/hour	1-8 l/hour
ACCESSORIES							
Remote control Digital Diesel Control (standard)	---------- the Digital Diesel Control remote panel guarantees convenience, in combination with one-button operation for preheating/starting/stopping. Key functions are shown on a LCD display ----------						
Second remote control panel (art. no. 50209102)	optional	optional	optional	optional	optional	optional	optional
System panel	several options (page 106)	several options (page 106)	several options (page 106)	several options (page 106)	several options (page 106)	---------- several options (page 106) ----------	
Three phase version	no	no	no	optional	optional	optional	optional
Ungrounded version (insulated return)	optional	optional	optional	optional	optional	optional	optional

* Until mid 2007, 3000 rpm sets in the current version will be supplied with a polyester sound shield.

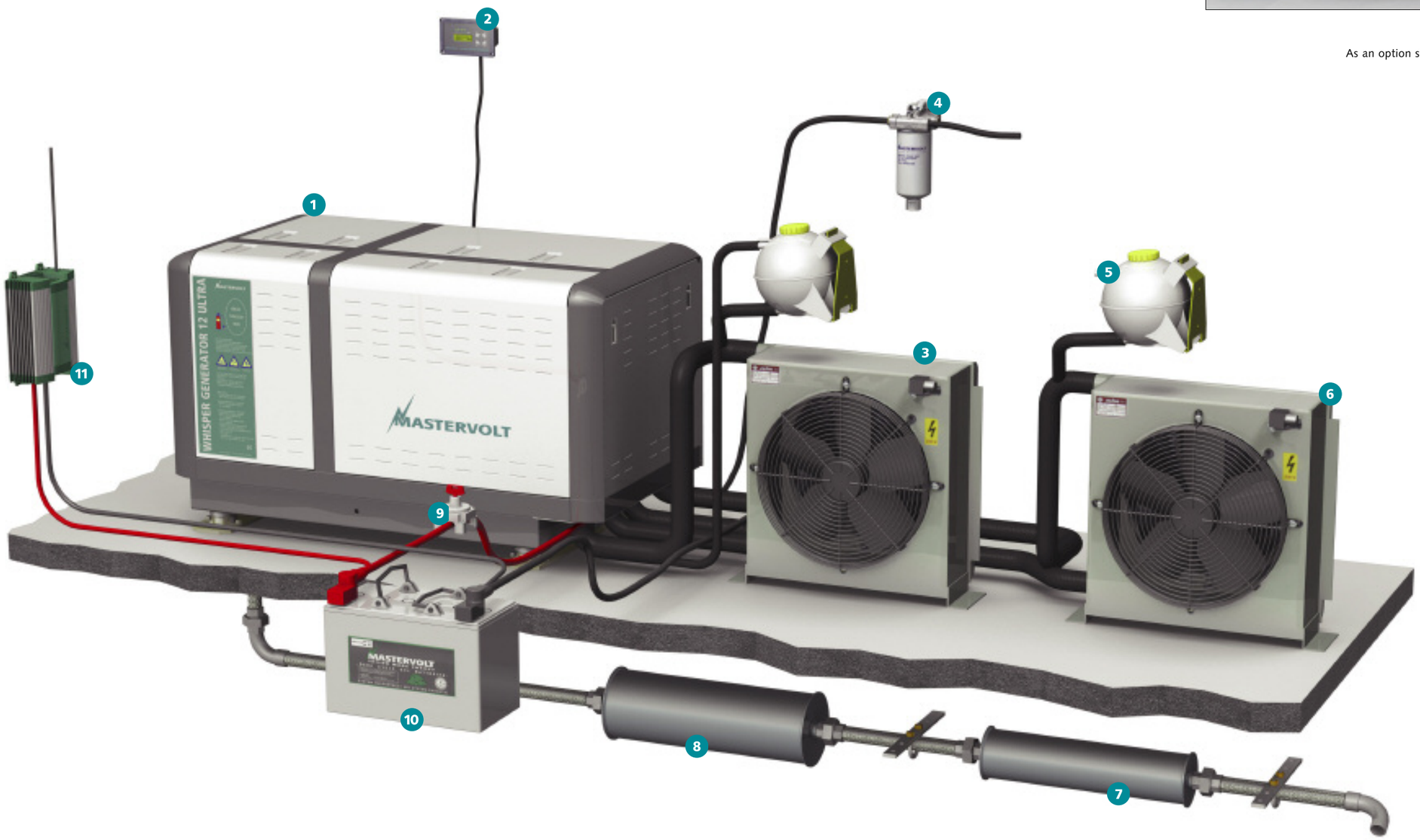
** This is the nett power available excluding the energy needed to drive the electric fans of the cooling radiators. Ratings based on engine performance according ISO 3046; 100 pKa barometric pressure, 30 % relative humidity, 25 °C ambient temperature. Ratings and tolerances electric parameters based on loads with power factor 1.

*** 3-Phase alternators are air-cooled and have AVR voltage regulation 2% tolerance.

Mastervolt Guarantee Plan • SystemCheck before commissioning • two-year product warranty • worldwide service

Strong links in your power system: Mastervolt installation kits

Leave nothing to chance when installing a Whisper generator. All connections and components should be of the highest quality: Anti-vibration mountings, facilities for fuel supply, cooling and filtering, interconnections for monitoring and remote operation, and - naturally - the connection to the power system on which everything depends. Mastervolt has developed every conceivable installation part in-house, all according to our strictest quality standards. This offers you the off the shelf ready-made installation kits in addition to the unrivalled expertise of our distributors.



1. Whisper generator.
2. DDC remote control.
3. Radiator for cooling diesel engine.
4. Diesel oil filter.
5. Expansion tank.
6. Radiator for cooling alternator.
7. Sound muffler (absorption).
8. Sound muffler (resonance).
9. Battery switch.
10. AGM starter battery 12 V.
11. Fully automatic 3-step battery charger, IVO 12/10 or 12/15.

Slide-out system

As an option slide-out rack system can be supplied.

Overview of installation kits

Radiator cooling kit consisting of:
Radiator to cool the engine, and a radiator to cool the generator, duct, installation material and expansion tanks.

Dry exhaust kit consisting of:
expansion muffler and resonance muffler, stainless steel flexible joint, insulation jacket, expansion joint, pipes, elbow, coupling part and installation materials.

Battery installation kit consisting of:
AGM battery, battery charger, battery switch and installation materials.

Fuel kit consisting of:
fuel filter/water separator, hose clamps and couplings.

description	art. no.
INSTALLATION KITS - MOBILE	
• Whisper 6 - 3000 rpm mobile	
Cooling kit alternator	50201878
Cooling kit engine	50201879
Fan controlling kit (optional)	50201882
Extra large expansion tank 7 ltr. including switch (optional)	50230535
Dry exhaust kit 1"	50201320
Fuel kit, universal	50230205
Battery installation kit, 70 Ah AGM	50230210
• Whisper 10 - 3000 rpm mobile	
Cooling kit alternator	50201878
Cooling kit engine	50201864
Fan controlling kit (optional)	50201882
Extra large expansion tank 7 ltr. including switch (optional)	50230535
Dry exhaust kit 1½"	50201875
Fuel kit, universal	50230205
Battery installation kit, 70 Ah AGM	50230210
• Whisper 6 Ultra - 1500 rpm mobile	
Cooling kit alternator	50201878
Cooling kit engine	50201879
Fan controlling kit (optional)	50201882
Extra large expansion tank 7 ltr. including switch (optional)	50230535
Dry exhaust kit 1½"	50201875
Fuel kit, universal	50230205
Battery installation kit, 70 Ah AGM	50230210
• Whisper 8 Ultra - 1500 rpm mobile	
Cooling kit alternator	50201878
Cooling kit engine	50201864
Fan controlling kit	50201882
Extra large expansion tank 7 ltr. including switch (optional)	50230535
Dry exhaust kit 1½"	50201875
Fuel kit, universal	50230205
Battery installation kit, 70 Ah AGM	50230210
• Whisper 12 Ultra & 16 Ultra - 1500 rpm mobile	
Cooling kit alternator (Whisper 12 Ultra)*	50201878
Cooling kit alternator (Whisper 16 Ultra)*	50201888
Cooling kit engine	50201877
Fan controlling kit (optional)	50201882
Extra large expansion tank 7 ltr. including switch (optional)	50230535
Dry exhaust kit 1½"	50201875
Fuel kit, universal	50230205
Battery installation kit, 70 Ah AGM (Whisper 12 Ultra)	50230210
Battery installation kit, 160 Ah AGM (Whisper 16 Ultra)	50230220
• Whisper 25 Ultra - 1500 rpm mobile	
Radiator cooling kit engine 230 V	50201897
Radiator cooling kit engine 400 V 3-phase	50201898
Dry exhaust kit 2"	50201889
Fuel kit, universal	50230205
Battery installation kit, 160 Ah AGM	50230220

* Only available for single phase 230 V generators.

description	art. no.
SPARE PARTS KITS	
See generator manual for a specification of the content.	
A-kit Whisper 6/10 - 3000 rpm	50201860
B-kit Whisper 6 - 3000 rpm	50201861
B-kit Whisper 10 - 3000 rpm	50201761
A-kit Whisper 6 Ultra - 1500 rpm	50201860
B-kit Whisper 6 Ultra - 1500 rpm	50201761
A-kit Whisper 8/12 Ultra - 1500 rpm	50201460
B-kit Whisper 8 Ultra - 1500 rpm	50201653
B-kit Whisper 12 Ultra - 1500 rpm	50201461
A-kit Whisper 16 Ultra - 1500 rpm	50201360
B-kit Whisper 16 Ultra - 1500 rpm	50201361
A-kit Whisper 25 Ultra - 1500 rpm	50201560
B-kit Whisper 25 Ultra - 1500 rpm	50201561

Spare parts kit, B-kit.

Extensive range of parts.

Extended information on www.mastervolt.com
Our website offers comprehensive information about the way a complete mobile generator should be installed. Our Whisper operating manuals describe the products and installations in detail. Please consult our local representative if you require a turn-key solution which includes installation of a complete system.